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| DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63) | Attorney Docket Number | 06458 USA |
| | First Named Inventor | Gauri Sankar Lal |
| | COMPLETE IF KNOWN | |
| | Application Number | / |
| | Filing Date | |
| | Group Art Unit | |
| <input checked="" type="checkbox"/> Declaration Submitted with Initial Filing OR <input type="checkbox"/> Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16 (e)) required) | | Examiner Name |

As a below named inventor, I hereby declare that:

My residence, mailing address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

Synthesis of Pentafluorosulfuranyl Substituted Alkanes

(Title of the Invention)

the specification of which

☒ is attached hereto

OR

☐ was filed on (MM/DD/YYYY) as United States Application Number or PCT International

Application Number and was amended on (MM/DD/YYYY) (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.

| Prior Foreign Application Number(s) | Country | Foreign Filing Date (MM/DD/YYYY) | Priority Not Claimed | Certified Copy Attached? | |
|-------------------------------------|---------|----------------------------------|--------------------------|--------------------------|--------------------------|
| | | | | YES | NO |
| | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:

Please type a plus sign (+) inside this box → ☐

PTO/SB/01 (10-00)

Approved for use through 10/31/2002. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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DECLARATION — Utility or Design Patent Application

| | | | | | | | |
|--|--|--|-----------|---|-----------|--|-------------|
| Direct all correspondence to: <input checked="" type="checkbox"/> Customer Number or Bar Code Label | | | | 23543 | | OR <input type="checkbox"/> Correspondence address below | |
| Name | | | | | | | |
| Address | | | | | | | |
| Address | | | | | | | |
| City | | | | State | | ZIP | |
| Country | | | Telephone | | | Fax | |
| <p>I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.</p> | | | | | | | |
| NAME OF SOLE OR FIRST INVENTOR : | | | | <input type="checkbox"/> A petition has been filed for this unsigned inventor | | | |
| Given Name (first and middle (if any)) Gauri Sankar | | | | Family Name or Surname Lal | | | |
| Inventor's Signature <i>Gauri Sankar Lal</i> | | | | | | Date 11/14/03 ✓ | |
| Residence: City Whitehall | | | PA State | USA Country | | USA Citizenship | |
| Mailing Address 1951 Pierce Drive | | | | | | | |
| Mailing Address | | | | | | | |
| City Whitehall | | | State PA | | ZIP 18052 | | USA Country |
| NAME OF SECOND INVENTOR: | | | | <input type="checkbox"/> A petition has been filed for this unsigned inventor | | | |
| Given Name (first and middle (if any)) Kristen Elaine | | | | Family Name or Surname Minnich | | | |
| Inventor's Signature <i>Kristen Elaine Minnich</i> | | | | | | Date 11/14/03 ✓ | |
| Residence: City Allentown | | | PA State | USA Country | | USA Citizenship | |
| Mailing Address 529 College Drive | | | | | | | |
| Mailing Address | | | | | | | |
| City Allentown | | | State PA | | ZIP 18104 | | USA Country |
| <input type="checkbox"/> Additional inventors are being named on the _____ supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto. | | | | | | | |

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STATEMENT UNDER 37 CFR 3.73(b)Applicant/Patent Owner: Gauri Sankar Lal

Application No./Patent No.: _____ Filed/Issue Date: _____

Entitled: Synthesis of Pentafluorosulfuranyl Substituted Alkanes

Air Products and Chemicals, Inc. _____, a corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of less than the entire right, title and interest.
The extent (by, percentage) of its ownership interest is _____ %

in the patent application/patent identified above by virtue of either:

- A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

OR

- B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

2. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

3. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

- ☐ Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

November 14, 2003
Date

Mark L. Rodgers
Typed or printed name

Mark L. Rodgers
Signature

Assistant General Counsel, Patents
Title

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POWER OF ATTORNEY and CORRESPONDENCE ADDRESS INDICATION FORM

| | |
|------------------------|--------------------------|
| Application Number | |
| Filing Date | |
| First Named Inventor | Gauri Sankar Lal |
| Title | Synthesis of Pentafluor- |
| Art Unit | |
| Examiner Name | |
| Attorney Docket Number | 06458 USA |

I hereby appoint:

☒ Practitioners at Customer Number:

23543

OR

☐ Practitioner(s) named below:

| Name | Registration Number |
|------|---------------------|
| | |
| | |
| | |
| | |

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Please recognize or change the correspondence address for the above-identified application to:

☐ The above-mentioned Customer Number:

OR

☐ The address associated with Customer Number:

OR

| | | | | |
|--|--|-------|--|-----|
| <input type="checkbox"/> Firm or Individual Name | | | | |
| Address | | | | |
| Address | | | | |
| City | | State | | Zip |
| Country | | | | |
| Telephone | | Fax | | |

I am the:

☐ Applicant/Inventor.

☒ Assignee of record of the entire interest. See 37 CFR 3.71.
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96)

SIGNATURE of Applicant or Assignee of Record

| | | | |
|-----------|------------------------|-----------|--------------|
| Name | Mark L. Rodgers | | |
| Signature | <i>Mark L. Rodgers</i> | | |
| Date | November 14, 2003 | Telephone | 610-481-8817 |

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.

☒ *Total of 1 forms are submitted.

This collection of information is required by 37 CFR 1.31 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

1-31-92

RECORDATION FORM COVER SHEET
PATENTS ONLY

Patent and Trademark Office

To the Assistant Commissioner for Patents.

Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Gauri Sankar Lal**Kristen Elaine Minnich**Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

2. Name and address of receiving party(ies):

Name: **Air Products and Chemicals, Inc.**Internal Address: **Patent Department**Street Address: **7201 Hamilton Boulevard**City **Allentown** State **PA** ZIP **18195-1501**Additional name(s) & address(es) attached? ☐ Yes ☒ No

3. Nature of Conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

Execution Date: 1) 11/14, 2) 11/14, 2003

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: 1) 11/14, 2) 11/14, 2003

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: **Dianne K. Moser**
Legal AssistantInternal Address: **Patent Department (06458 USA)**Street Address: **7201 Hamilton Boulevard**City **Allentown** State **PA** ZIP **18195-1501**6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41)

\$ 40.00☐ Enclosed☒ Authorized to be charged to deposit account

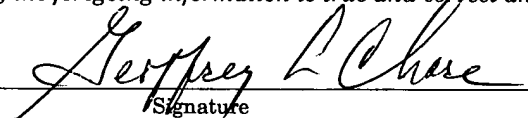
8. Deposit account number:

01-0493**DO NOT USE THIS SPACE**

9. Statement of signature.

*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.***Geoffrey L. Chase, Reg. No. 28,059**

Name, Reg. No. of Person Signing


Signature

Date

November 14, 2003Total number of pages comprising cover sheet: 1

OMB No. 0651-0011

Do not detach this portion

Mail documents to be recorded with required cover sheet information to:

Assistant Commissioner for Patents
Box Assignments
Washington, D.C. 20231

ASSIGNMENT

For value received, we, Gauri Sankar Lal and Kristen Elaine Minnich, hereby sell, assign, and transfer to **AIR PRODUCTS AND CHEMICALS, INC.**, a corporation of the State of Delaware, having an office at 7201 Hamilton Boulevard, Allentown, PA 18195-1501, the entire right, title, and interest in and to the invention relating to

Synthesis of Pentafluorosulfuranyl Substituted Alkanes

described in our application for Letters Patent of the United States (identified by Docket No. 06458 USA) executed of even date herewith, in and to all Letters Patent which may be issued upon said application, in and to any divisional or reissue applications based thereon, and in and to all Letters Patent upon said invention or improvements which may be granted in foreign countries. We hereby also assign and convey to said **AIR PRODUCTS AND CHEMICALS, INC.**, all the rights accruing to us by virtue of the International Convention for the Protection of Industrial Property (Art. 4), including the right to apply for and to have patents issued in its own name.

And we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and the Officials of the Patent Offices of all other countries to issue the Letters Patent of their respective countries to said **AIR PRODUCTS AND CHEMICALS, INC.**, as assignee of the entire right, title, and interest in and to the same.

And we hereby promise and agree to execute all papers and perform all acts necessary to secure to and vest in said **AIR PRODUCTS AND CHEMICALS, INC.**, its successors and assigns, the rights conveyed as herein set forth.

Gauri Sankar Lal (L.S.)
Gauri Sankar Lal

11/14/03
Date

Kristen Elaine Minnich (L.S.)
Kristen Elaine Minnich

11/14/03
Date

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Gauri Sankar Lal (L.S.)
Gauri Sankar Lal

11/14/03
Date

Kristen Elaine Minnich (L.S.)
Kristen Elaine Minnich

11/14/03
Date